

Patent Claims

1. Extruder tool for producing a cylindrical body, which consists of plastic mass and has at least one recess extending in the interior thereof, comprising
 - an extruder nozzle with a tapering region and a nozzle mouthpiece, which forms a cylindrical channel, and
 - a carrier device at which a number, which corresponds with the number of internal recesses, of threads is fastened or which has a number, which corresponds with the number of internal recesses, of channels for threadlike pressing of a volatile filler material into the mass flow,characterised in that
 - the carrier device consists of a number, which corresponds with the number of internal recesses, of carrier elements (3, 4) and
 - each of the carrier elements (3, 4) is fastened to the extruder nozzle in the region of the nozzle mouthpiece (2) or in the tapering region.
2. Extruder tool according to claim 1, characterised in that each of the carrier elements (3, 4) is adjustable in radial direction.
3. Extruder tool according to claim 2, characterised in that the radial adjustability of each of the carrier elements (3, 4) is given by a thread or a setting drive.
4. Extruder tool according to one of the preceding claims, characterised in that each of the carrier elements (3, 4) is of pin-like construction and led through a bore in the extruder nozzle (P).
5. Extruder tool according to any one of the preceding claims, characterised in that the mouthpiece (2) has an end region (5) which for production of a helical course of the at least one internal recess is rotatable relative to the tapering region (1) of the extruder nozzle (P).
6. Extruder tool according to any one of the preceding claims, characterised in that it comprises a sensor (10) which is provided for determining the spacing of the at least one internal recess of the body from the surface thereof, that the output signals of the sensor

are fed to a setting unit (11) and that the setting unit (11) is provided for radial adjustment of the carrier elements (3, 4) in dependence on the determined spacing.

7. Extruder tool according to any one of the preceding claims, characterised in that the parts of the carrier elements (3, 4) protruding into the cylindrical channel are formed to taper at the inflow and/or outflow end.

8. Extruder tool according to any one of the preceding claims, characterised in that the carrier elements (3, 4) are thread holder elements at each of which a respective thread (6, 7) is fastened.

9. Extruder tool according to claim 8, characterised in that each thread has a round or non-round cross-sectional area and/or is provided with a round or non-round terminating member.

10. Extruder tool according to any one of claims 1 to 7, characterised in that the carrier elements (3, 4) have channels through which volatile filler material can be pressed into the mass flow.

11. Extruder tool according to claim 10, characterised in that the channels have a round or non-round cross-sectional area.